

Listing of Claims

1. (Currently Amended) A method for ~~performing a fast acquisition of a Pseudo Noise~~
~~(PN) sequence~~ processing signals in a communication system transmitter, comprising
time-advance sampling a state sample of a first main sequence which includes a PN
sequence;
generating a state signal based on the time-advanced state sample and spreading and
~~transmitting a state signal for a main shift register generator by an~~ a first igniter sequence; and
spreading a data stream based on the first main sequence; and
transmitting the state signal and a data signal which corresponds to the spread data
stream ~~by a main sequence generated by the main shift register generator~~
2. (Currently Amended) The method of claim 1, further comprising
receiving and despreding the state signal for the main shift register generator of the
~~transmitter by the~~ based on a second igniter sequence; and
receiving and despreding the data signal by the main sequence based on the despread
state signal and a second main sequence which includes a PN sequence.
3. (Currently Amended) The method of claim 1, wherein the first igniter sequence and
the first main sequence are transmitted simultaneously.

4. (Currently Amended) The method of claim 2 ~~1~~, ~~wherein the igniter sequence is generated using a plurality of shift register generators (SRGs), and wherein each of the first and second main sequences are generated by shift register generators plurality of a (SRGs) which have~~ has a different structures than the structure of the other a SRGs.

5. (Currently Amended) A method for processing signals ~~performing a fast acquisition of a Pseudo Noise (PN) sequence~~ in a receiver, comprising:

receiving and despreding a state signal ~~for the main shift register generator~~ based on an igniter sequence;

receiving and despreding a data signal based on the despread signal and a main sequence which includes a PN sequence.

6. (Currently Amended) The method of claim 5, further comprising:

detecting ~~a~~ the data signal by tracking the main sequence;

reconfirming a synchronization state obtained during the detecting step; and

continuing the detecting step in succession when an accurate acquisition is confirmed by observing detection characteristics for a prescribed period of time, ~~retracting an acquisition complete message if it is determined that acquisition is not correct, and re-executing receiving and the spreading a state signal for the main shift register generator of the transmitter by the igniter sequence.~~

7. (Currently Amended) The method claimed in claim 1, wherein ~~said~~ the first igniter sequence has a period having a start time which corresponds to a position equal to a duration of a single bit of a multi-bit string value data-symbol.

8. (Currently Amended) The method claimed in claim 1, ~~wherein~~ further comprising:
receiving and synchronizing the first igniter sequence by comprises:
acquiring the first igniter sequence transmitted from the transmitter; and
determining an acquisition completion of the first igniter sequence.